Atty. Docket No.: CVN-011 CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicat	ion of:)
	Steven K. Stringer et al.)
a : 1 > r)
Serial No.:)
	10/616,116)
Filing Date:)
	July 8, 2003)
For:	INTEGRATED BLOOD)
	HANDLING SYSTEM HAVING)
	ACTIVE GAS REMOVAL)
	SYSTEM AND METHODS OF)
	USE	,

San Diego, California

Mail Stop Amendment **Commissioner for Patents** P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR § 1.97 (c)

Dear Sir or Madam:

In accordance with 37 C.F.R. § 1.56, Applicants make the documents, listed on the enclosed form PTO/SB/08, of record in the above-identified application. In accordance with 37 C.F.R. § 1.97, this statement is not to be construed as a representation that a search has submitting a copy of each cited U.S. patent and U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 that appears in the Official Gazette Notice (Week No. 31) dated August 5, 2003 and entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent

Applications Filed After June 30, 2003". Copies of non-patent literature documents are

enclosed herewith.

It is respectfully requested that these documents be (1) fully considered by the U.S. Patent and Trademark Office in the examination of the above-identified application; and (2) printed on any patent which may issue on this application. It is also respectfully requested that a copy of Form PTO/SB/08, as considered and initialed by the Examiner, be returned to the undersigned with the next communication in accordance with M.P.E.P. § 609.

Please find a check enclosed in the amount of \$180.00 under 37 CFR 1.17 (p). We request the United States Patent and Trademark Office charge any underpayments or credits to our Deposit Account No. 50-2298, in the name of Luce, Forward, Hamilton & Scripps LLP.

Respectfully submitted,

Date Date 15, 2005

Nicola A. Pisano

Attorney for Applicant(s)

Reg. No. 34,408

c/o

LUCE, FORWARD, HAMILTON

& SCRIPPS LLP

11988 El Camino Real, Ste. 200 San Diego, California 92130 Telephone No.: (858) 720-6300

2

PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

e Paperwork Reduction Act of 1995, no persons are required to res

Substitute for form 1449/PTO

Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known					
Application Number	10/616,116				
Filing Date	7/8/2003				
First Named Inventor	Steven K. Stringer				
Art Unit	3762				
Examiner Name	Bianco, Patricia				
Attorney Docket Number	CVN-011 CON				

				DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
	 	US- 3,701,433	10-31-1972	Krakauer et al.	
-	1	US- 3,827,562	08-06-1974	Esmond	
	<u> </u>	US- 4,056,476	11-01-1977	Mouwen et al.	
	<u> </u>	^{US-} 4,087,363	05-02-1978	Rosenmeyer et al.	
		^{US-} 4,111,829	09-05-1978	Bimond et al.	
		^{US-} 4,126,558	11-21-1978	Luceyk	
		^{US-} 4,157,965	06-12-1979	Raible	
	İ	^{US-} 4,280,495	07-28-1981	Lampert	
		^{US-} 4,283,289	08-11-1981	Meyst et al.	
		^{US-} 4,319,580	03-16-1982	Colley et al.	
		^{US-} 4,354,500	10-19-1982	Colley et al.	
		^{US-} 4,354,501	10-19-1982	Colley et al.	
	T	^{US-} 4,354,502	10-19-1982	Colley et al.	
		^{US-} 4,401,566	08-30-1983	Igari et al.	
		^{US-} 4,411,783	10-25-1983	Dickens et al.	
		^{US-} 4,490,254	12-25-1984	Gordon et al.	
		^{US-} 4,490,331	12-25-1984	Steg Jr.	
		^{US-} 4,493,705	01-15-1985	Gordon et al.	
		^{US-} 4,572,724	02-25-1986	Rosenberg et al.	

	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶	
ļ							
		·					

Examiner	Date	 	
Signature	Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND** TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Attorney Docket Number CVN-011 CON

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449/PTO Application Number 10/616,116 Filing Date 7/8/2003 INFORMATION DISCLOSURE First Named Inventor Steven K. Stringer STATEMENT BY APPLICANT Art Unit 3762 (Use as many sheets as necessary) Examiner Name Bianco, Patricia

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (F known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		^{US-} 4,653,577	03-31-1987	Noda	
		^{US-} 4,676,771	06-30-1987	Henske	
		^{US-} 4,690,762	09-01-1987	Katsura	
* * * * * * * * * * * * * * * * * * * *		^{US-} 4,698,207	10-06-1987	Bringham et al.	
		^{US-} 4,747,826	05-31-1988	Sassano	
		^{US-} 4,919,802	04-24-1990	Katsura	
		^{US-} 4,923,438	05-08-1990	Vasconcellos et al.	
		^{US-} 4,981,413	01-01-1991	Elonen et al.	
		^{US-} 5,011,469	04-30-1991	Buckberg et al.	
		^{US-} 5,017,103	05-21-1991	Dahl	
-		^{US-} 5,055,198	10-08-1991	Stettigar	
		^{US-} 5,158,533	10-27-1992	Strauss et al.	
		^{US-} 5,162,102	11-10-1992	Nogawa et al.	
		^{US-} 5,188,604	02-23-1993	Orth	
		US- 5,205,153	04-27-1993	Hlavinka et al.	
		^{US-} 5,266,265	11-30-1993	Raible	
		^{US-} 5,270,005	12-14-1993	Raible	
		^{US-} 5,334,309	08-02-1994	Huggett et al.	
		^{US-} 5,394,732	03-07-1995	Johnson et al.	

	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
_		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶	
						_	
						<u> </u>	
			-				

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵Applicant is to place a check mark here if English language

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

	stitute for form 1449/PTO	Complete if Known			
Oub.	salate for form 1440/170	Application Number 10/616,116			
IN	FORMATION DISCLOSURE	Filing Date	7/8/2003		
		First Named Inventor	Steven K. Stringer		
S	TATEMENT BY APPLICANT	Art Unit	3762		
(Use as many sheets as necessary)		Examiner Name	Bianco, Patricia		
Sheet	3 of 5	Attorney Docket Number	CVN-011 CON		

Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2 (F known)}	00.00.1005		rigures Appear
		^{US-} 5,445,613	08-29-1995	Orth	
		^{US-} 5,503,801	04-02-1996	Brugger	
		^{US-} 5,514,335	05-07-1996	Leonard et al.	
		^{US-} 5,591,251	01-07-1997	Brugger	
		^{US-} 5,632,894	05-27-1997	White et al.	
		^{US-} 5,634,892	06-03-1997	Whalen	
		^{US-} 5,651,765	07-29-1997	Haworth et al.	
		^{US-} 5,746,575	05-05-1998	Westphal et al.	
		^{US-} 5,762,684	06-09-1998	Hayashi et al.	
		^{US-} 5,823,986	10-20-1998	Peterson	
·		^{US-} 5,840,068	11-24-1998	Cartledge	
		^{US-} 5,863,179	01-26-1999	Westphal et al.	
		^{US-} 5,876,611	03-02-1999	Shettigar	
		^{US-} 5,899,873	05-04-1999	Jones et al.	
		^{US-} 5,997,816	12-07-1999	McIntosh et al.	
		^{US-} 6,017,493	01-25-2000	Cambron et al.	
		^{US-} 6,206,632	03-27-2001	Gallus	
		^{US-} 6,224,829	05-01-2001	Piplani et al.	
		^{US-} 6,241,945	06-05-2001	Owen	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ^{3 -} Number ^{4 -} Kind Code ⁵ (<i>if known</i>)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
· · · · · · · · · · · · · · · · · · ·						┢
	ļ .					┢
-	-		 			十

Examiner	Date	
Signature	Considered	
	1	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Translation is attaicned.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449/PTO Application Number 10/616,116 Filing Date 7/8/2003 INFORMATION DISCLOSURE First Named Inventor Steven K. Stringer STATEMENT BY APPLICANT Art Unit 3762 (Use as many sheets as necessary) Bianco, Patricia Examiner Name CVN-011 CON Sheet 4 Attorney Docket Number

Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ^{2 (# known)}			Figures Appear	
		^{US-} 6,267,926	07-31-2001	Reed et al.		
		^{US-} 6,302,860	10-16-2001	Gremel et al.		
		^{US-} 6,315,751	11-13-2001	Cosgrove et al.		
		^{US-} 6,328,712	12-11-2001	Cartledge		
		^{US-} 6,337,049	01-08-2002	Tamari		
		^{US-} 6,524,267	02-25-2003	Gremel et al.		
		^{US-} 20040195178	10-07-2004	Carpenter et al.		
		^{US-} 20040197223	10-07-2004	Olsen et al.		
		^{US-} 20040217054	11-04-2004	Olsen et al.		
		^{US-} 20040220509	11-04-2004	Olsen et al.		
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	
		Country Code ³ Number ⁴ Kind Code ⁵ (# known)	MM-DD-YYYY			Τ6
						┢
						┡
_					<u> </u>	┡
						┢
						⊬
					1	

Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPART MENT OF COMMERCE

Substitu	te for form 1449/PTO			Complete if Known		
Gubantu	10/10/11/14/07/10			Application Number	10/616,116	
INF	ORMATION	DIS	CLOSURE	Filing Date	07/08/2003	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Steven K. Stringer	
	Alea as many sha	ote se n	acaesand	Art Unit	3762	
(Use as many sheets as necessary)				Examiner Name	Bianco, Patricia	
Sheet	5	of	5	Attorney Docket Number	CVN-011 CON	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Matayoshi et al., "Development of a Completely Close Circuit Using an Air Filter in a Drainage Circuit for Minimally Invasive Cardiac Surgery," Artificial Organs 24(6): 454-458 (2000).	
		Medtronic, "The Bio-Pump Centrifugal Blood Pump." (1998)	
		Morita et al., "Closed Circuit Cardiopulmonary Bypass with Centrifugal Pump for Open-Heart Surgery: New Trial for Air Removal," Artificial Organs 24(6):442-445 (2000).	
		Jorge Ojita, et al., "Assisted Venous Drainage Cardiopulmonary Bypass in Congenital Heart Surgery,"Ann. Thorac. Surg., 71: 1267-72 (2001).	
		Joseph J. Sistino et al., "Laboratory Evaluation of a Low Prime Closed Circuit Cardiopulmonary Bypass System," J.Extra-Corp. Tech., 24 (4): 116-119 (1993).	
		Declaration of Jorge Ojito, Aug. 2003.	
		Declaration of Yehuda Tamari, Sep.4, 2003.	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

EXAMINEN: Initial if reference considered, whether or not citation is in conformance with MPEP obs. Draw line unlough citation in not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.